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At this point it would be good to recheck other ranges, though none of these steps should affect any previous ones. Then - done!

Note 1: R12 and R14 may have been added to the bridge pot during production. R12 would have been added to the clockwise end of the pot to expand range on the upper side of the dial, and R14 would have been added to the counter-clockwise end of the pot to expand range on the lower side. These resistors may be replaced with 100 ohm trimmers to correct range "spread" problems. To install the trimmers measure the existing resistors with an accurate ohm meter, then set the new trimmers to match the old fixed resistors. Install the R12 trimmer between the clockwise terminal of the pot and R10 (150 ohms, 2 watts) and install R14 between the counter-clockwise terminal of the pot and the wire to the switch board.

Note 2: It is advisable to add back to back protection diodes (1N4007 or similar) across the meter for overload protection.

Note 3: When using the TO-5, readings in the center of the dial will be the most accurate.

Some notes about the circuitry:

C1-2 range reference is C6 (180 PF) with C7 trimmer.
C1 range accuracy is +/-2% and +/- 1 PF
C2 range accuracy is 3%

C3 range reference is C8 (.02 UF)
C3 range accuracy is 5% from .001 to .005 and 3% from .005 to .1
With C3 range selected, R11 is inserted between the upper side of the range control and the power transformer. In all other ranges R11 is bypassed.

C4 range reference is C9 (2 UF)
C4 range accuracy is 5% from .1 to .5 and 3% from .5 to 10 UF

C5 range reference is C9 (2 UF), extended by shunt resistor R15 (150K).

R12 is an optional selected resistor on the upper side of the bridge dial, 0-100 ohms. Increasing the resistance of R12 will expand range at the upper side of the dial. (With R12 or R14 at 100 ohms, about 1/4” of “dial diameter” is added.)

R14 is an optional selected resistor on the lower side of the bridge dial. Increasing the resistance of R14 will expand range at the lower side of the dial.

ELECTROLYTIC LEAKAGE TEST by Leigh

The 5 mA shunt on the TO-6 sets the current flowing through the metering resistors. The sum of the metering resistances R14, R15, R16, and R17 is 120000 ohms. If you apply 600 volts across 120K, you draw 5 mA of current. In the case of the TO-6, a small portion of the 5 mA flows through the meter, and the remainder through the 5 mA shunt.

To set the shunt, select the 600-volt range and connect a digital voltmeter to the binding posts. Depress button F and adjust the TO-6 voltage control for 600 volts on the DVM. Then adjust the shunt for a full-scale (600 volt) reading on the meter. Check the full-scale voltages on the 60- and 6-volt ranges. If they're off, check metering resistors R14 and R15 and replace any that are off value.

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